

Appendix C

Appendix C Environmental Data

The table and figures in this appendix were scanned from the report on Estimating Historical Emissions from Rocky Flats 1952-1989, March 1994, prepared for the Colorado Department of Public Health and Environment, by Chem Risk. The table and figures provide the annual air emissions for enriched and depleted uranium in micro-curies for each year starting in 1953. The report revised previously reported data for estimated releases prior to 1961 by using raw data from the plant log books. The early data has higher uncertainty limits.

Year	Enriched Uranium (μCi)			Depleted Uranium (μCi)		
	95% Lower Confidence Limit	Geometric Mean	95% Upper Confidence Limit	95% Lower Confidence Limit	Geometric Mean	95% Upper Confidence Limit
1953	4.6	12	30	610	1,600	4,000
1954	4.6	12	30	610	1,600	4,000
1955	38	96	250	1,100	2,700	7,000
1956	560	1,400	3,700	510	1,300	3,300
1957	180	470	1,200	370	950	2,400
1958	160	400	1,000	810	2,100	5,300
1959	270	700	1,800	140	350	900
1960	440	1,100	2,900	180	460	1,200
1961	240	620	1,600	260	680	1,700
1962	130	320	830	190	480	1,200
1963	170	430	1,100	250	640	1,600
1964	96	250	630	120	310	800
1965	96	250	630	140	360	930
1966	120	300	770	71	180	470
1967	56	140	370	71	180	470
1968	81	210	530	71	180	470
1969	25	65	170	81	210	530
1970	33	83	210	96	250	630
1971	21	53	140	29	75	190
1972	2.0	5.2	13	21	55	140
1973	6.1	16	40	27	70	180
1974	14	35	90	4.6	12	30
1975	14	36	93	14	36	93
1976	8.1	21	53	6.1	16	40
1977	11	27	70	9.7	25	63
1978	11	27	70	17	43	110
1979	4.7	12	31	13	34	87
1980	7.6	20	50	7.6	20	50
1981	6.1	16	40	9.1	23	60
1982	6.1	16	40	9.7	25	63
1983	10	26	67	16	40	100
1984	10	26	67	2.8	7.2	18
1985	4.0	10	26	20	51	130
1986	5.6	14	37	1.5	3.8	9.7
1987	2.3	6.0	15	6.1	16	40
1988	1.3	3.4	8.7	4.7	12	31
1989	2.6	6.8	17	1.3	3.3	8.3

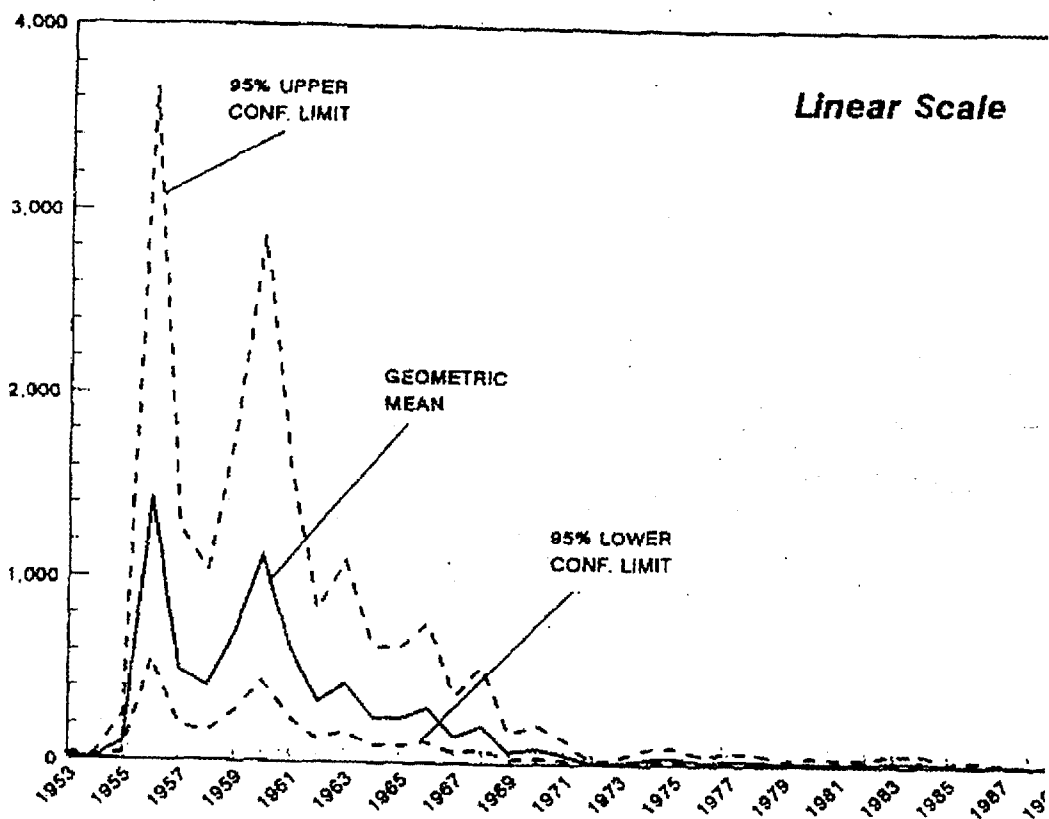


FIGURE 4-3
AIRBORNE RELEASE ESTIMATES AND
UNCERTAINTIES - ENRICHED URANIUM
(μCi)

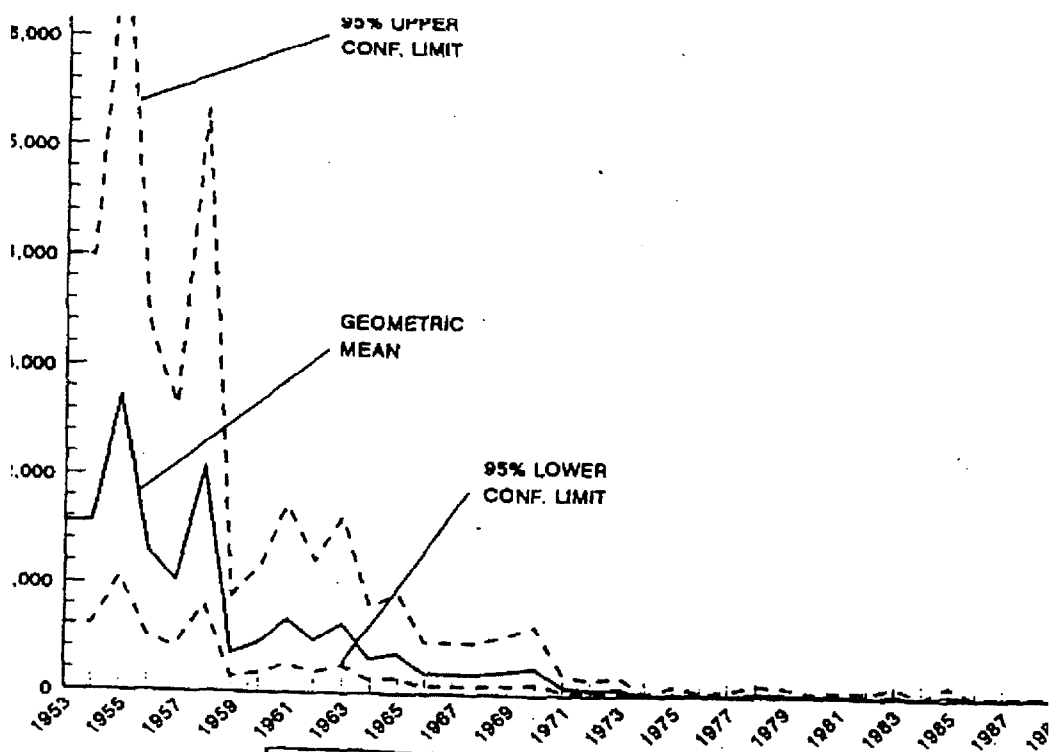


FIGURE 4-4
AIRBORNE RELEASE ESTIMATES AND
UNCERTAINTIES - DEPLETED URANIUM
(μCi)